ACTi MobileGo!
User Manual

Version 1.1.18

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ACTi
Connecting Vision

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Overview

Introduction

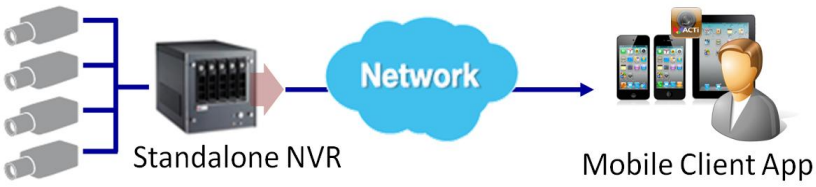
MobileGo! is a free app for iPad, iPhone or iPod that allows you to do remote-monitoring on Standalone NVR. It is ready to connect with Standalone NVR without further configuration or installation.

This App supports overview of instant channel snapshots upon logging in, single channel live streaming, real-time PTZ control, digital PTZ, going to presets, playback and search functions.

Network Architecture

The service architecture is described in the following figure. Please note that the architecture may change to fit different applications.

MobileGo! connects with Standalone NVR



Specification

Mobile Client	Function		MobileGo!
	Supported NVR Type		Standalone NVR (XNR-4200, GNR-2000)
	Supported Device		iPhone, iPod Touch, and iPad (HD)
	Supported Language		Chinese, English, Japanese, Dutch, French, German, Italian, Spanish, Russian, Romanian, and Vietnamese
	Main Screen	Single Channel Image Format	640x480 JPEG
		Layout Type	6-grid Display, swipe to go to previous /next page
		Camera Group	Selectable Camera Groups (Select layout names to change groups)
		Displayed Channels	All channels on NVR
		Refresh	V
	Single Channel Live View	Streaming Video Format	640x480 / 320x240 @ 1 FPS Multiple JPEG
		Optical PTZ	V
		Digital PTZ	V
		Go to PTZ Preset Points	V
		Take Snapshots	V
		Go to Previous/Next Channel	Swipe to go to previous /next channel
		Camera Info	V
	Playback	Streaming Video Format	640x480 / 320x240 @ 1 FPS Multiple JPEG
		Digital PTZ	V
		Playback Mode	Continuous playback control, 1/2/4/8x Rewind/Fast forward
		Time Stamp	V
		Search Criteria	Camera, Start time, End time, Event type (Schedule / Motion / DI)
	Settings	3G/Wi-Fi Mode Switch	V
		Prevent Idling	V
Server	Function		Standalone NVR
	Live View	Video Format	Resolution: Up to 4M Compression: MJPEG/MPEG-4/H.264 Frame rate: Up to 30 FPS
	Playback		

Compatible Standalone NVR Firmware Version

XNR-4200 v1.02.12 or later

GNR-2000: v1.02.12 or later

Supported Video Format from Server

Server	Standalone NVR		
Compression / Resolution	H.264	MPEG-4	MJPEG
2032X1920	V	V	V
1920X1080	V	V	V
1.3M or below	V	V	V

Things You Need to Know Before You Start

1. MobileGo! supports optical PTZ function only if the PTZ device has been enabled on NVR server.

2. MobileGo! doesn't support "Audio-in" function.

Startup

To start using MobileGo!, please download and install this app in your device.

Download MobileGo! from App Store

In **"App Store",** search the keyword "**MobileGo**!" and install the app directly. It requires Internet access for the mobile device. Upon successful installation, the MobileGo! icon will appear on your device main screen.

Fig. 1 Download App

Get Prepared for MobileGo! Connection

Before starting up connection, please make sure your Standalone NVR is connected to WAN and that your mobile device has Internet access.

Operating Instructions

Login

Upon tapping on MobileGo! on iPhone desktop, the program starts to run and displays as in the following figures.

Fig. 2 Login

1 **Username**

Please key in account username. Default username for Standalone NVR is **Admin**.

2 **Password**

Please key in account password. Default password for Standalone NVR is **123456**.

3 **NVR IP**

Please key in an IP address of a Standalone NVR Server.

4 **NVR Port**

Please key in the port number of the Standalone NVR Server. The default HTTP port for accessing to NVR is 80.

Live

Live Main Screen

Upon login of the system, **Live** tab will display a six-grid layout to show all the channels existing in your Standalone NVR by six channels on each page. Users may swipe pages to see more channels.

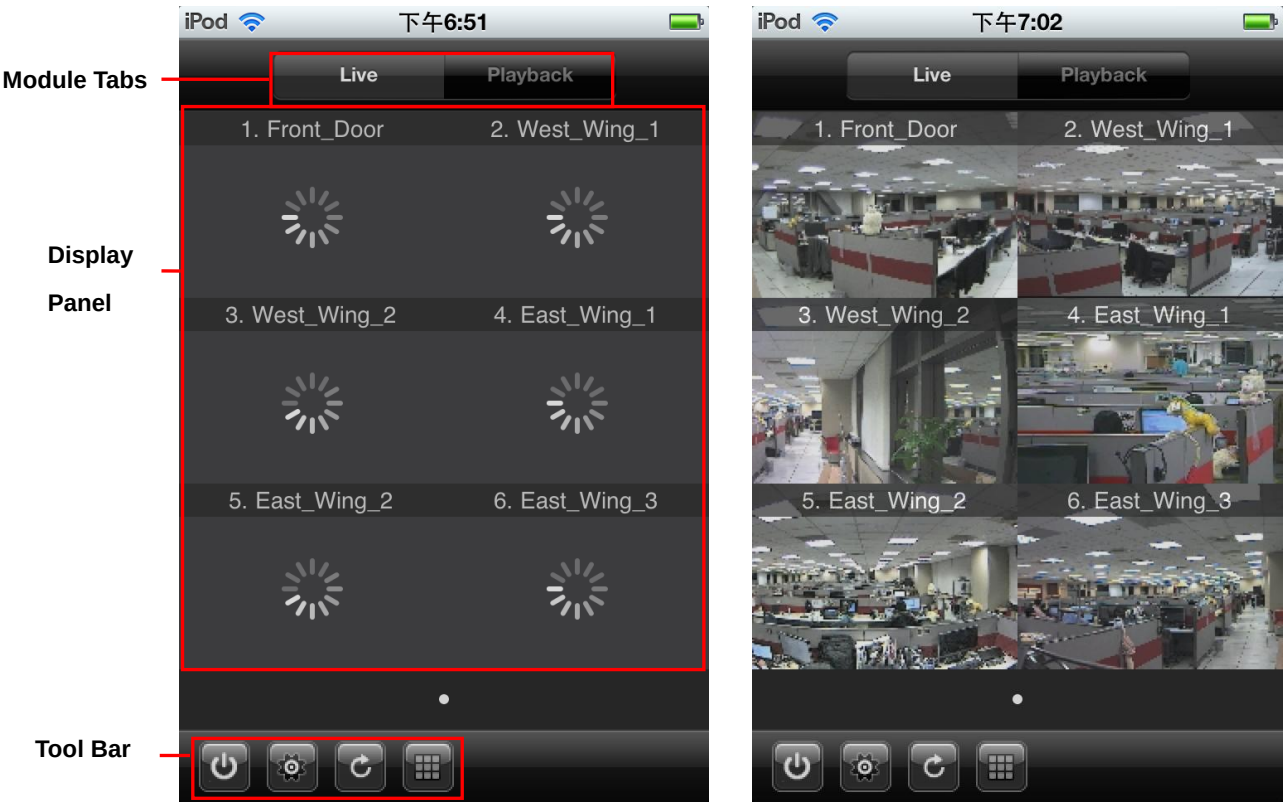


Fig. 3 Live Main Screen

Summary of the Live Main Screen

1. **Module Tab**

   To switch modules, user may click on one of the tabs to change modules between **Live** and **Playback**.

2. **Tool Bar**

   2.1 **Login form**

   To switch NVR Server, please click login form button to change destination.

   2.2 **Setup**

   To switch resolution modes and **Idle Timer**. With **Idle Tmer** OFF, even if you have set your device to **Auto-Lock** after few minutes of idling, MobileGo! will stay active on display.

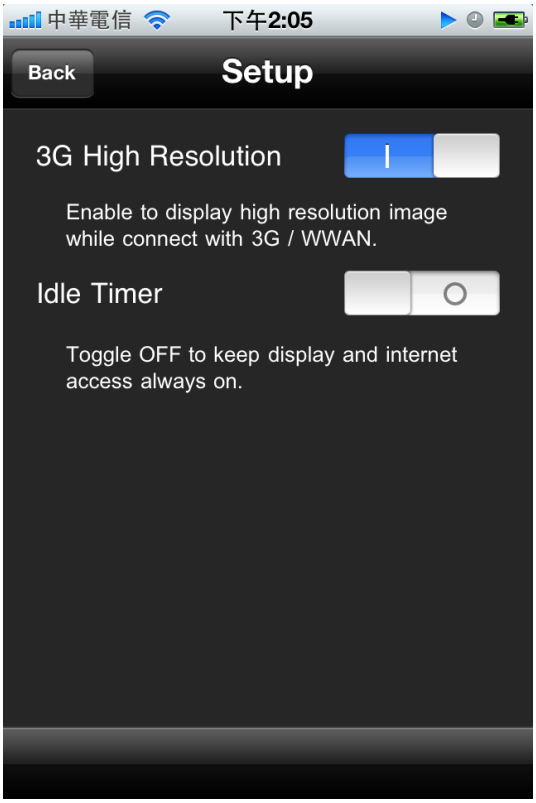


Fig. 4 Setup

2.3 **Refresh**

To capture snapshots again.

2.4 **Select Camera Group**

Tap to select different camera groups under Layout names you set in Standalone NVR server.

3. **Display Panel**

Still images captured on the spot when users log in. Click on a panel to start video.

Module Tabs

There are two modules in the system, **Live** and **Playback**, to carry out live streaming and playback. Upon switch in the page, snapshots would be displayed as in the following figures. Portrait or Landscape is automatically sensed by device position.

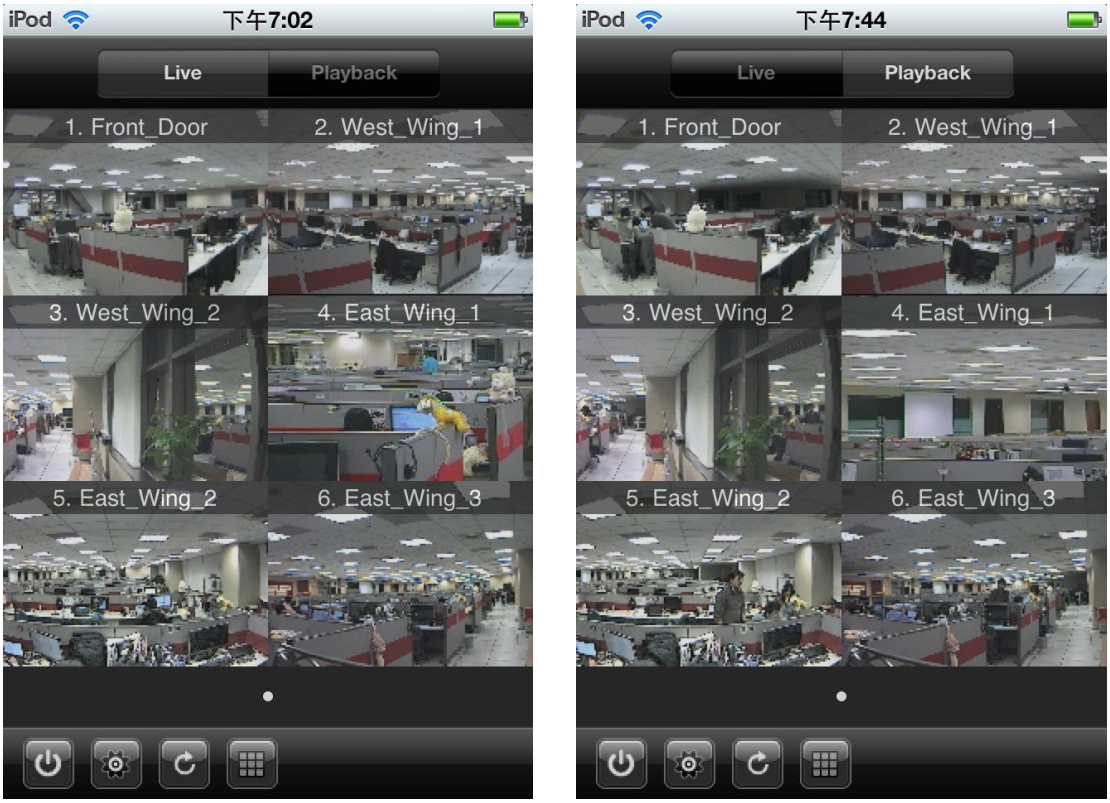


Fig. 5 Live & Playback in Portrait orientation

Fig. 6 Landscape orientation

Live Streaming

In **Live** main page, tap on a channel to start live view. Click on **Back** to go back to the previous page. Click on **Snapshot** to sanpshot the image. A prompt window would inform that the snapshot is saved. Click on **OK** and go to the gallery to check out snapshots.

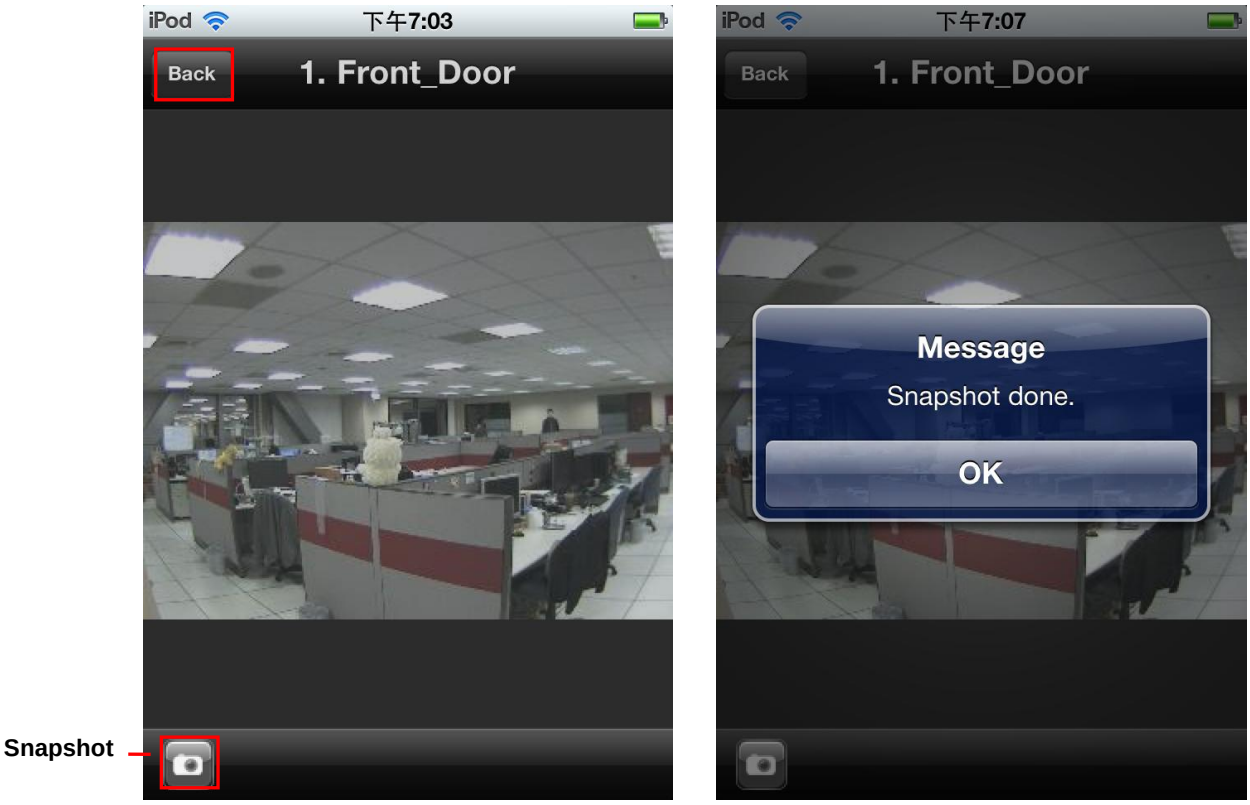


Fig. 7 Live streaming

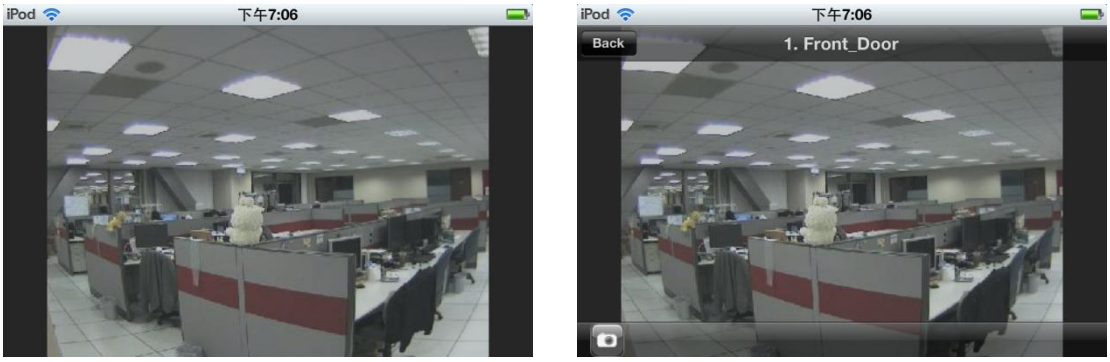


Fig. 8 Streaming - landscape orientation

When under landscape orientation, tap on the screen to invoke tool bars.

Channel Swiping

Users may swipe channel backword and forward while streaming by swiping the screen directly or clicking on the pager.

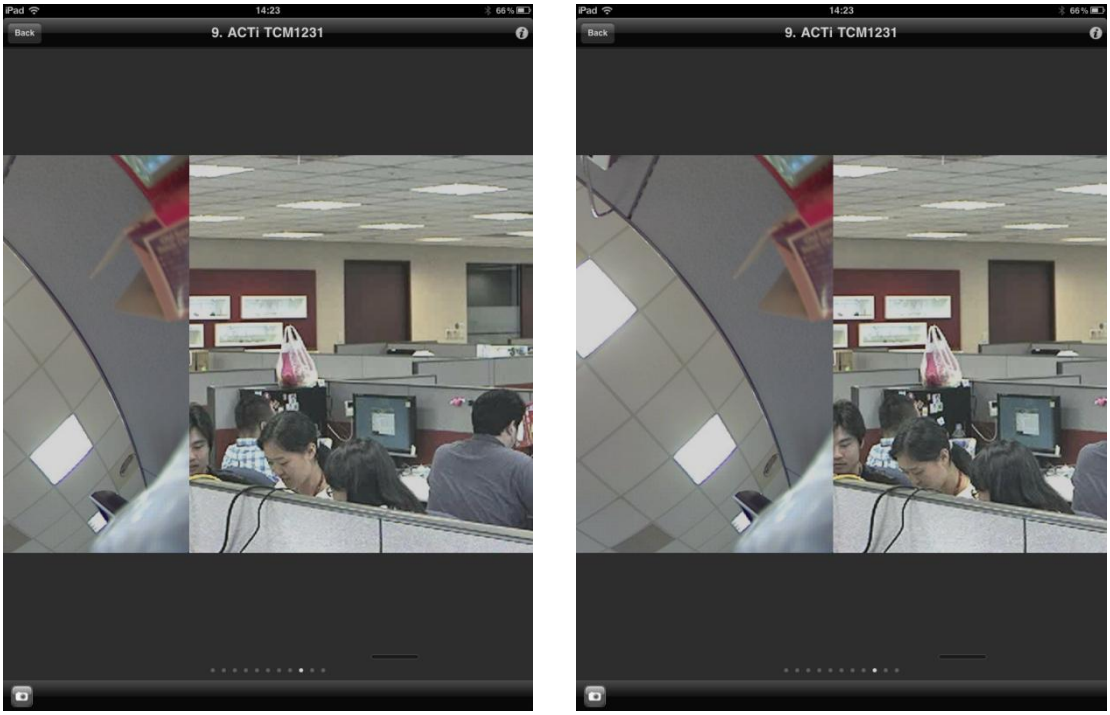


Fig. 9 Channel swiping

PTZ Function

To manipulate PTZ function, please make sure that you have successfully enabled PTZ on Standalone NVR Server. Please try to control PTZ on NVR Live View first to confirm that PTZ function is properly set.

Fig. 10 Live streaming with PTZ control

1. **Snapshot**

   Click on **Snapshot** button to sanpshot the image.

Fig. 11 Snapshot

2. **PTZ**

   When **PTZ** button is enabled, transparent indicators would display in the pane. Click arrows, '+', or '-' to move, zoom in or zoom out. Tap on the indicator to command one move. Hold the indicator to command contineuous move.

3. **Go-to-preset**

   Click on **Go-to-present** button, a list will show pre-defined preset points.

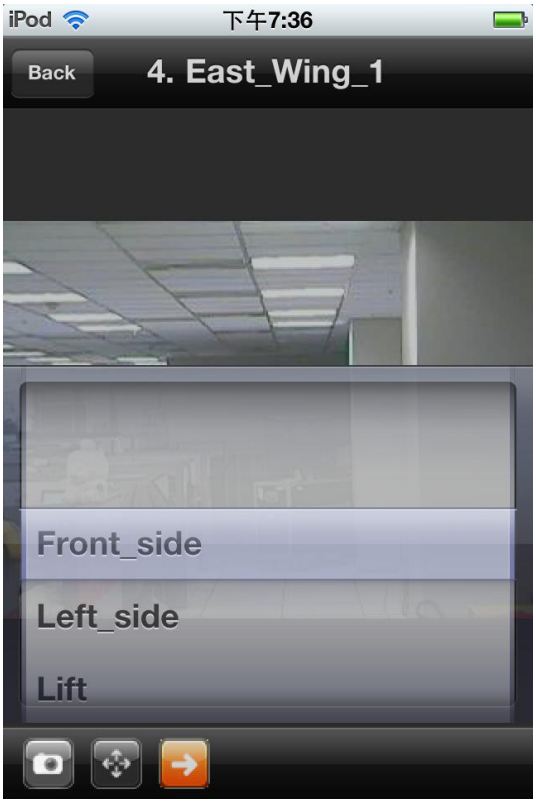


Fig. 12 Go-to-preset in portrait orientation

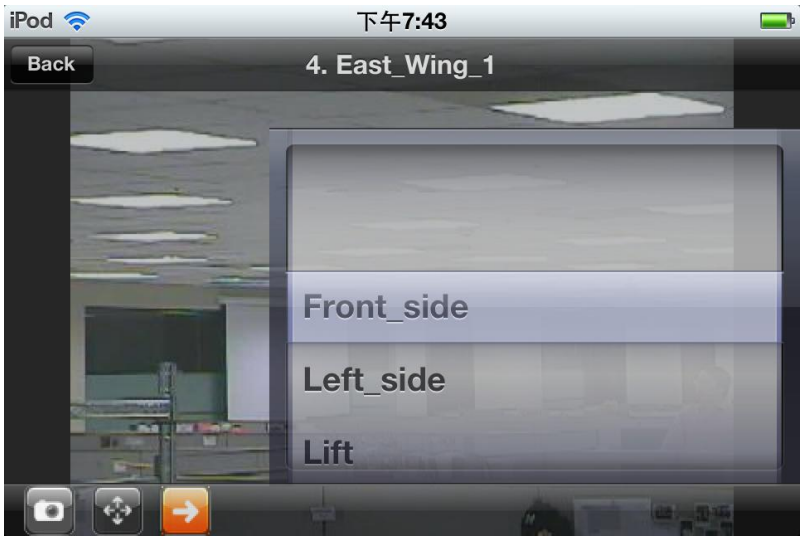


Fig. 13 Go-to-preset in landscape orientation

Digital PTZ Function

MobileGo! supports Digital PTZ by double-click on the video to zoom in. When this funciton is on, a Position Window will indicate the position of the current view. See the following figure. If Go-to-preset button is clicked under Digital PTZ mode, Digital PTZ will automatically be switched off and start to pen, tilt, or optical zoom.

Fig. 14 Digital PTZ

Exit Digital PTZ and swipe the screen to switch channels.

Playback

MobileGo! provides playback function. In **Playback** module, tap on one of the channel, the page will switch to **Video Search**.

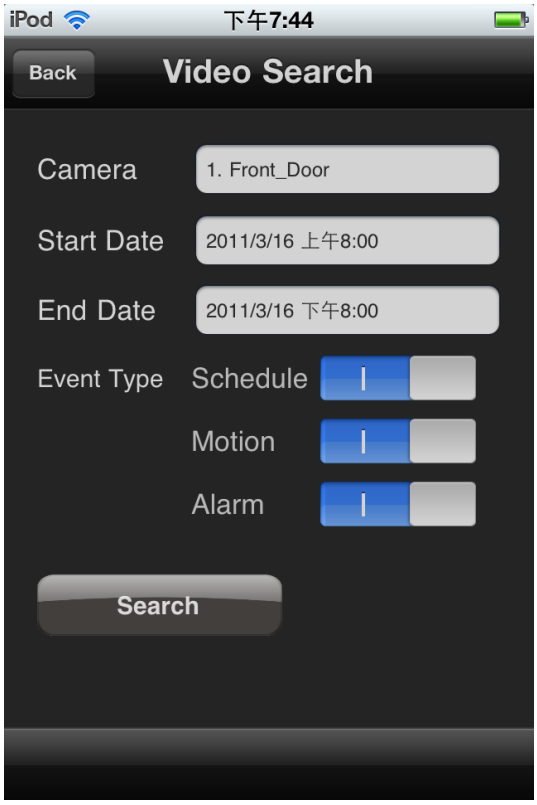


Fig. 15 Video Search

1 **Camera**

Users may switch channels via clicking on camera name in the text field.

2 **Start Date**

Select date and time. Default start time is 8 AM of the day.

Tap on a text field to open time gouge, roll it to a wanted time, and then tap on the text field again to close the gouge.

Note: Gouge will remain on the screen if it is not closed.

3 **End Date**

Select a period of time starting from **Start Date** to query and list all video clips within the period. **The default end date is 12 hours later from start date.**

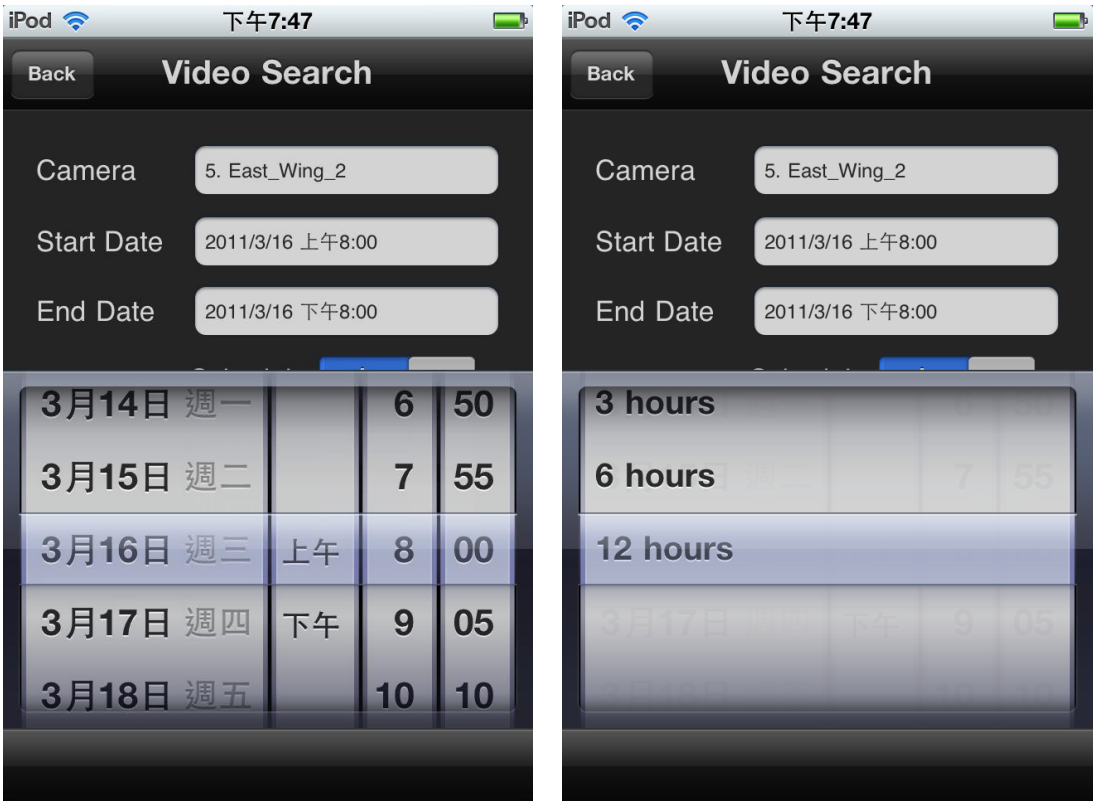


Fig. 16 Select Start Date and End Date

4 **Event Type**

4.1 **Schedule**

Search for schedule recordings.

Note: If a channel has multiple rules of recording concurrently, for example, schedule with motion, then only schedule will be recognized and performed.

4.2 **Motion**

Search for motion triggered recordings.

4.3 **Alarm**

Search for Digital Input triggered recordings.

Search Result

Video clips will be listed in **Search Result** page regarding search criteria. Tap on one of the listing, playback will start to stream.

Note: Please notice that recording file length and pre-event recording length are set in Standalone NVR Server configuration. Users are not allowed to change any NVR settings through MobileGo!.

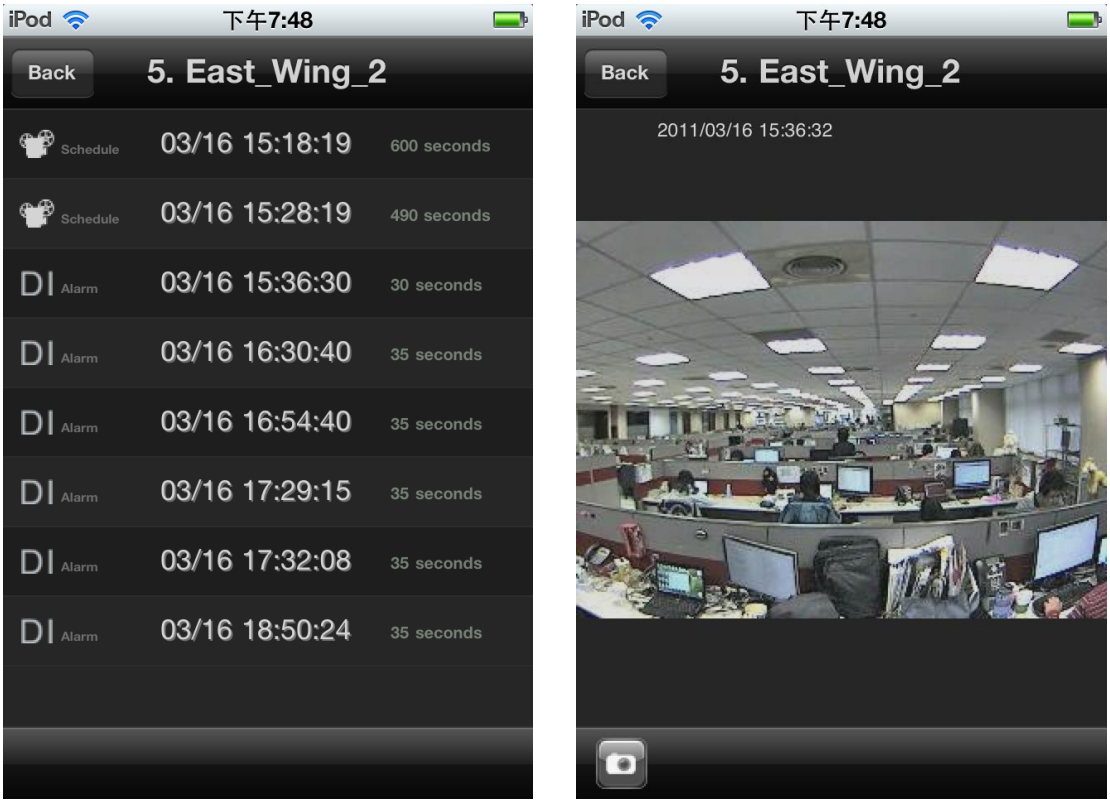


Fig. 17 Search Result & Playback

Fig. 18 Playback in full screen landscape orientation

Playback Control Panel and Time Track

Click on the display panel to show control panel in terms of Play, Pause, Fast Rewind, Fast Forward, Previous, Next, and a time track. Slide the time track to select a designated time to start playback.

To switch video clips, swipe the screen or click on the pager.

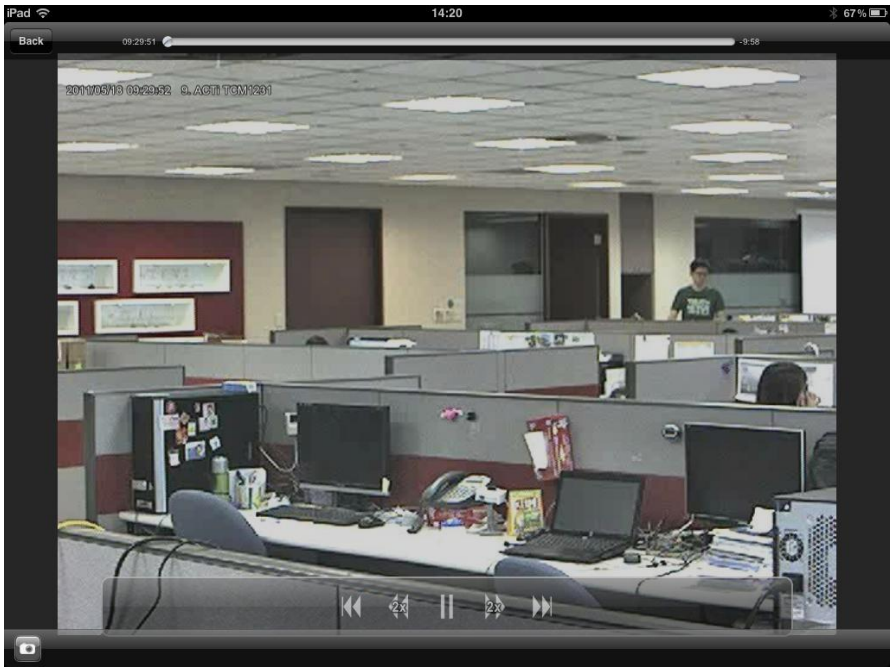


Fig. 19 Playback control buttons

Fig. 20 **Playback Digital PTZ**

Exit Digital PTZ by double clicking on the screen again. When Digital PTZ is on, swiping page is inactive.

Tips to Optimize the Performance of MobileGo!

MobileGo! makes remote-monitoring possible as soon as you install it on your i-devices. With normal network connectivity, you may enjoy the convenient functions it provides and satisfactory video streaming quality. However, you might experience certain unstable video display performance, for example, certain channels take longer to display the images upon logging in, or the live view streaming is not smooth enough. Please consider the following factors that are possibly influencing the performance of live view result:

How fast Standalone NVR can provide the output image

Standalone NVR would transform the original image to lighter format before outputting it to the mobile client (MobileGo!). However, the higher compression level or resolution the original image comes with, the more CPU usage is required to process image-transforming, and the longer processing time is needed to generate the output image before it can be delivered.

Network quality

This is the major factor to affect the display result. With more bandwidth of the network connection, your mobile client gets the images sooner and the streaming gets smoother.

There are several tips you may try to get better live view result as possible, given that your network condition is not easy to control:

1. To preserve more CPU power for image-transforming to generate the images faster and more efficiently, you may make use of the dual-streaming devices on your site. Standalone NVR supports dual-streaming devices and would recognize **Stream 1** output from video source. Simply use lower video format for **Stream 1** for Live view (640X480 resolution is recommended), while **Stream 2** uses better format for the purpose of recording. Thus it may take shorter for the mobile device to obtain the image data and display the view.

2. As video stream with better compression level will consume more CPU usage for Standalone NVR to decode the image, you may try using lower compression levels such as MPEG-4 or MJPEG for high resolution video.